114.2 - Lubricating Oils

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size
1085c	Wear Metals in Lubricating Oil	10 ampoules (1.2 g each)
1818a	Chlorine in Lubricating Base Oils	set (5)
1819a	Sulfur in Lubricating Base Oil	set (5)
1848	Lubricating Oil Additive Package	100 g

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

114.2 - Lubricating Oils

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114.2(1)- Metals in Lubricating Oil

			Elemental Composition (mass fraction in mg/kg unless noted by an asterik * for %)														
SRM	Description	Unit Size	Aluminum (Al)	Arsenic (As)	Barium (Ba)	Boron (B)	Cadmium (Cd)	Calcium (Ca)	Chlorine (Cl)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Hydrogen (H)	Iron (Fe)	Lead (Pb)	Magnesium (Mg)	Manganese (Mn)
1085c	Wear Metals in Lubricating Oil	10 ampoules (1.2 g each)	292		306	304	301	299	(120)	302		298		301	303	300	299
1848	Lubricating Oil Additive Package	100 g				0.137*		0.359*	927				*12.3**			0.821*	

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			Elemental Composition (mass fraction in mg/kg unless noted by an asterik * for %)												
SRM	Description	Unit Size	Molybdenum (Mo)	Nickel (Ni)	Nitrogen (N)	Phosphorus (P)	Potassium (K)	Silicon (Si)	Silver (Ag)	Sodium (Na)	Sulfur (S)	Tin (Sn)	Titanium (Ti)	Vanadium (V)	Zinc (Zn)
1085c	Wear Metals in Lubricating Oil	10 ampoules (1.2 g each)	305	306		304	295	293	298	300		298	300	*285*	285
1848	Lubricating Oil Additive Package	100 g			*0.57**	0.788*		*50*			2.3270*				0.873*

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114.2 - Lubricating Oils

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114.2(2)- Sulfur and Chlorine in Lubricating Base Oil

			Elemental Composition (mass fraction in mg/kg)				
SRM	Description	Unit Size	I	II	III	IV	V
1818a	Chlorine in Lubricating Base Oils	set (5)	31.6	60.0	78.2	154.4	234.0
1819a	Sulfur in Lubricating Base Oil	set (5)	423.5	741.1	4022	4689	6135

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